

**NORTHERN GOVERNORATES WATER TRANSMISSION SYSTEM
EASTERN PRIMARY TRANSMISSION PROJECT
ZATARY PUMP STATION AND ZATARY-HOFA PIPELINE
BID SUMMARY**

| BILL NO. | DESCRIPTION | CONTRACT AMOUNT US \$ |
|----------|---|--------------------------|
| | <u>A-MOBILIZATION</u> | |
| 1 | MOBILIZATION (up to 5% of contract price) | |
| | <u>B-ZATARY PUMP STATION</u> | |
| 2 | SITE WORKS | |
| 3 | BUILDING WORKS | |
| 4 | MECHANICAL WORKS | |
| 5 | ELECTRICAL WORKS | |
| 6 | INSTRUMENTATION AND CONTROL WORKS | |
| | <u>C-ZATARY-HOFA PIPELINE</u> | |
| 7 | PIPELINE | |
| 8 | VALVES | |
| | <u>D-PROVISIONAL SUMS</u> | |
| 9 | PROVISIONAL SUMS | |
| | Total Amount | |

**NORTHERN GOVERNORATES WATER TRANSMISSION SYSTEM
EASTERN PRIMARY TRANSMISSION PROJECT
ZATARY PUMP STATION AND ZATARY-HOFA PIPELINE
BILL No 1**

A-MOBILIZATION

| ITEM | DESCRIPTION | UNIT | EST. QTY | RATE US \$ | AMOUNT US \$ |
|--|---|------|-------------|---------------|-----------------|
| 1.01 | Contract Bank Guarantees and/or Bonds | LS | LS | | |
| 1.02 | Insurance | LS | LS | | |
| 1.03 | Contractor's office | LS | LS | | |
| 1.04 | Engineer's office | LS | LS | | |
| 1.05 | Engineers vehicles | | | | |
| | a - SUVs | No | 2 | | |
| | b- Pick up trucks | No | 4 | | |
| | Supply and install signage including fixing to walls, sign supports, design of project signage as specified. | | | | |
| 1.06 | Project signs 1800 x 1200 mm | No | 4 | | |
| 1.07 | Miscellaneous Mobilization Items* | LS | LS | | |
| TOTAL CARRIED TO TENDER SUMMARY | | | | | |

* The bidders must include a breakdown of the miscellaneous mobilization item on this page as sub items to item 1.07

Note: The total of all mobilization items including the sub items to be inserted by the bidders must not exceed 5% of Contract price

**NORTHERN GOVERNORATES WATER TRANSMISSION SYSTEM
EASTERN PRIMARY TRANSMISSION PROJECT
ZATARY PUMP STATION AND ZATARY-HOFA PIPELINE
BILL No 2**

B-ZATARY PUMP STATION

SITE WORKS

| Item No. | DESCRIPTION | UNIT | EST. QTY | RATE | AMOUNT |
|-----------------------------------|---|--|--------------------|------|--------|
| | | | | US\$ | US\$ |
| 2.01 | Removal of existing office-front green area including all structures, walkways, plants etc. as specified and shown on the Drawings. | LS | LS | | |
| 2.02 | Relocating of existing laid on surface galvanized pipes to sufficient safe distance from the new control room as specified and shown on the Drawings. | LS | LS | | |
| 2.03 | Reinstallation of existing water pipelines in trenches as per drawing (C-1) detail No. 1, note 6. | LS | LS | | |
| 2.04 | Removal of existing trees with deferent sizes, complete as directed by the Engineer and shown on the Drawings. | LS | LS | | |
| 2.05 | Cleaning and grubbing of top 200 mm soil, inclusive of removal of vegetation & roots, rocks, debris, etc and disposal of the excess soil as specified & directed by the Engineer. | M ² | 3000 | | |
| 2.06 | Removal of existing cables, trenches and transformers area fence as shown on the Drawings and directed by the Engineer. | LS | LS | | |
| 2.07 | Selected imported compacted fill to 95% modified proctor test and 98% modified proctor test for upper one meter in layers not exceeding 25cm each from top of foundations to bottom of base course layer under slab on grade a- For site works | M ³ | 270 | | |
| 2.08 | Granular Sub-base Course material, with CBR value not less than 40% as specified. a-200 mm thick for parking area and roads | M ² | 2150 | | |
| 2.09 | Imported crushed stone aggregate base course (Hard core) material, 100% compaction with CBR value not less than 80% as specified. a- 150mm thick for buildings b- 150mm thick for walk ways c- 150 mm base course for parking area and roads | M ² M ² M ² | 560 384 2150 | | |
| 2.10 | Bituminous prime coat (MC-70) with min application rate 1.5 to 2.0 Kg/m2, automatically spreading, all as per roads specifications. a- For roads and parking areas | M ² | 2150 | | |
| 2.11 | Bituminous binder course 60 mm compacted thickness. a- For roads and parking areas | M ² | 2150 | | |
| 2.12 | Asphalt tack coat (RC-250) at rate of 0.5 Kg/m2, automatically spreading, all as per roads specifications. a- For roads and parking areas | M ² | 2150 | | |
| TOTAL CARRIED TO NEXT PAGE | | | | | |

Note: The Employer reserves the right to delete any item of the site works

**NORTHERN GOVERNORATES WATER TRANSMISSION SYSTEM
EASTERN PRIMARY TRANSMISSION PROJECT
ZATARY PUMP STATION AND ZATARY-HOFA PIPELINE
BILL No 2**

B-ZATARY PUMP STATION

SITE WORKS

| SITE WORKS | | | | | |
|----------------------------|--|----------------|----------|------|--------|
| Item No. | DESCRIPTION | UNIT | EST. QTY | RATE | AMOUNT |
| | | | | US\$ | US\$ |
| | Total Carried from the previous page | | | | |
| 2.13 | Bituminous wearing course 50 mm compacted thickness. a- For roads and parking areas | M ² | 2150 | | |
| 2.14 | Precast concrete curb, including excavation, backfill, concrete base and backing class (20), pointing and traffic painting. a-Size 120/150x300x500mm. | MR | 885 | | |
| 2.15 | Precast concrete cement tiles 400x400x40mm thick, including mortar, sand bed, pointing and all needed to complete the works as specified and Shown on the Drawings. a- To walk ways and entrance steps | M ² | 395 | | |
| 2.16 | Supply and lay down 400 mm deep agricultural soil layer to all new green areas shown on the Drawings, including leveling and preparation works for receiving new plantation | M ² | 460 | | |
| 2.17 | Septic tank and leaching chambers including excavation, concrete, reinforced concrete for foundations, walls, roofs and inlet manhole, price shall include manhole covers GVS steps and aggregate for filtration and backfilling complete septic tank as specified and shown on the Drawings | LS | LS | | |
| 2.18 | Seepage pits for pump room surface water including excavation, concrete, reinforced concrete, block walls, aggregate fill materials as specified and shown on the Drawings | No | 2 | | |
| 2.19 | Pump suction sump in the existing reservoir, including cutting and removing reservoir slab, excavation and shoring, blinding, reinforced concrete, joints and waterstop as specified and shown on the Drawings | LS | LS | | |
| 2.20 | Supply and install site main steel gates including demolishing existing fence wall, excavation, column, foundation, floor guide guide plate, concrete, ball bearing wheels, painting, hardware set and all works needed to Join with existing fence wall as specified and shown on the Drawings a- Size 4000 w X 2000 h | No | 2 | | |
| 2.21 | Supply and install site signage and dedication plague including fixing to walls, sign supports, design of all signage as specified and shown on the Drawings a- Dedication plaque size 800 x 600 mm b-Restrictive signs | No No | 1 12 | | |
| TOTAL CARRIED TO NEXT PAGE | | | | | |

Note: The Employer reserves the right to delete any item of the site works

**NORTHERN GOVERNORATES WATER TRANSMISSION SYSTEM
EASTERN PRIMARY TRANSMISSION PROJECT
ZATARY PUMP STATION AND ZATARY-HOFA PIPELINE
BILL No 2**

B-ZATARY PUMP STATION

SITE WORKS

| Item No. | DESCRIPTION | UNIT | EST. QTY | RATE | AMOUNT |
|--|--|------|----------|------|--------|
| | | | | US\$ | US\$ |
| | Total Carried from the previous page | | | | |
| 2.22 | Supply and install fire Extinguishers as specified | No | 8 | | |
| 2.23 | Supply, install test and commission steel horizontal surge vessels 95m3 each designed according ASME Code division 8- Pressure vessels including but not limited to ground surface preparation, RC support, RC base, level control, inspection manholes, galvanized steel ladder, inlet valves, water & air, pressure gages safety valves, all electric cabling , wiring & connections to control panel as specified and shown on the Drawings | No | 3 | | |
| 2.24 | Yard Piping: Supply, install, test disinfect and commission Yard Piping for pumps suction header, discharge headers and their branches, surge tanks water and air piping, comprising of but not limited, steel pipes & fittings, vaults, BFV valves, gate valves for surge tanks, magnetic meter, discharge header wash out vault and pipe as specified and shown on the Drawings | LS | LS | | |
| 2.25 | Supply, install test and commission UPVC pipes buried in trenches as specified and shown on the Drawings | | | | |
| | a- for sanitary sewers 160mm diameter, 6mm thickness | MR | 70 | | |
| | b- for pump building surface drainage to seepage pits 110mm, 4.7mm thick | MR | 30 | | |
| 2.26 | Supply & install concrete manhole 600mm diameter with all civil related works, and cast iron cover steps and benching as specified and shown on the Drawings | No | 5 | | |
| 2.27 | Supply and laydown precast stepping reinforced concrete tiles 500x500x50mm including steel reinforcement surface treatment with concrete sealer | No | 36 | | |
| 2.28 | Supply and plant, various types of trees and shrubs including planting soil, support wood, and one year maintenance as shown on the drawing | | | | |
| | a- syprus | No | 22 | | |
| | b- pines | No | 17 | | |
| | c- Juneporous | No | 57 | | |
| | d- weeping willow | No | 2 | | |
| 2.29 | Supply and install hose bibs including 20mm dia galvanized supply pipes, hose reels with 25 m length flexible hose 20 mm diameter | No | 4 | | |
| TOTAL CARRIED TO TENDER SUMMARY | | | | | |

Note: The Employer reserves the right to delete any item of the site works

**NORTHERN GOVERNORATES WATER TRANSMISSION SYSTEM
EASTERN PRIMARY TRANSMISSION PROJECT
ZATARY PUMP STATION AND ZATARY-HOFA PIPELINE
BILL No 3**

B-ZATARY PUMP STATION

BUILDING WORKS

| Item No. | DESCRIPTION | UNIT | EST. QTY | RATE | AMOUNT |
|----------------------------|---|----------------|----------|------|--------|
| | | | | US\$ | US\$ |
| 3.01 | Excavation in any kind of soil, rock ... etc., starting at reduced ground levels including working space, compacting backfill material around footing, walls and removal of surplus material from site to an approved dumping area complete as specified and shown on the Drawings | | | | |
| | a- For buildings from natural ground level to top of footings and for site leveling | M ³ | 1300 | | |
| | b- For foundations and pits excavation | M ³ | 140 | | |
| 3.02 | Selected imported compacted fill to 95% modified proctor test and 98% modified proctor test for upper one meter in layers not exceeding 25cm each from top of foundations to bottom of base course layer under slab on grade | | | | |
| | a- For buildings | M ³ | 120 | | |
| 3.03 | Plain concrete Grade 15 with ordinary Portland cement including all necessary formwork, additives, joints, joint fillers etc as specified and shown on the Drawings. | | | | |
| | a- 100 mm thick blinding under foundations | M ² | 280 | | |
| | b- 50 mm thick blinding under slabs on grade | M ² | 580 | | |
| 3.04 | Reinforced concrete Grade 30 with ordinary Portland cement including all necessary formwork, reinforcement bars, additives, joints, joint fillers etc. as specified for: | | | | |
| | a- Footings, foundations and ground beams. | M ³ | 90 | | |
| | b- Slab on grade for buildings | M ³ | 100 | | |
| | c- Slab on grade for walk ways | M ³ | 25 | | |
| | d- Columns and column necks | M ³ | 50 | | |
| | e- Pump cans structures | M ³ | 40 | | |
| | f- Grade 30 Concrete for suspended solid slabs, ribbed slabs, beams and drop beams, in all thicknesses and dimensions as shown on Drawings. | M ³ | 125 | | |
| 3.05 | Electrical Trenches: Fair face concrete trenches in the electrical room, including excavations, grade 15 concrete for blinding, grade 30 concrete for walls and bottom slabs, reinforcement bars, steel edge angle, joints, joint fillers and trench covers made of removable galvanized steel chequered plates 6mm thick with handles as specified and shown on the Drawings | | | | |
| | a- 1000x1000 mm internal dimensions | MR | 40 | | |
| TOTAL CARRIED TO NEXT PAGE | | | | | |

**NORTHERN GOVERNORATES WATER TRANSMISSION SYSTEM
EASTERN PRIMARY TRANSMISSION PROJECT
ZATARY PUMP STATION AND ZATARY-HOFA PIPELINE
BILL No 3**

B-ZATARY PUMP STATION

BUILDING WORKS

| Item No. | DESCRIPTION | UNIT | EST. QTY | RATE | AMOUNT |
|-----------------------------------|---|--|-------------------------|------|--------|
| | | | | US\$ | US\$ |
| | Total Carried from the previous page | | | | |
| 3.06 | Non-slip mechanically trowel led Grade 30 concrete flooring with non-metallic hardener, including joints and all necessary works as specified and shown on the drawings. a- 60mm thick, for pump & electrical room floors | M ² | 325 | | |
| 3.07 | Hand trowel led cement / sand protection screed to insulation lightweight concrete a- 30 mm thick for roofs on top of lightweight concrete. | M ² | 590 | | |
| 3.08 | Foam concrete "650 Kg/m ³ " max density sloping to drains, forming of fillets as specified and shown on the Drawings. a- For roofs, 50mm minimum thickness at drain units. | M ² | 590 | | |
| 3.09 | Cement hollow block walls in cement mortar for boundary walls, partitions & parapet, including R.C lintels, concrete sills, stiffener beams for walls more than 3m height and all other needed works as specified and shown on the Drawings. a- 100mm thick b- 150mm thick c- 400 mm overall thickness cavity block walls (150 mm+100mm "void"+150mm). d- 300 mm overall thickness cavity block walls (150mm+50mm "void"+100mm) | M ² M ² M ² M ² | 295 140 490 80 | | |
| 3.10 | Hollow concrete rib blocks for roof slabs a- 400/360x200x180 mm high. b- 400/360x200x280 mm high. | No No | 540 3660 | | |
| 3.11 | Rubberized bituminous emulsion damp proof, cold applied, three coats with minimum total thickness 1.5 mm including all protection works a- To foundations and column necks | M ² | 1100 | | |
| TOTAL CARRIED TO NEXT PAGE | | | | | |

**NORTHERN GOVERNORATES WATER TRANSMISSION SYSTEM
EASTERN PRIMARY TRANSMISSION PROJECT
ZATARY PUMP STATION AND ZATARY-HOFA PIPELINE
BILL No 3**

B-ZATARY PUMP STATION

BUILDING WORKS

| Item No. | DESCRIPTION | UNIT | EST. QTY | RATE | AMOUNT |
|-----------------------------------|---|----------------|----------|------|--------|
| | | | | US\$ | US\$ |
| | Total Carried from the previous page | | | | |
| 3.12 | Water Proofing: Water-base elastic bitumen acrylic emulsion water proof, brush applied, three coats, heat and burning resistant including 100 mm white aggregate protection cover layer as per manufacturers instructions and as specified. | | | | |
| | a- To roofs and parapets | M ² | 625 | | |
| 3.13 | Supply and install extruded polystyrene boards with skin, tongue and groove edge treatment, density of not less than 33.6kg/m3 | | | | |
| | a- 50mm thick for exterior cavity walls | M ² | 670 | | |
| 3.14 | Steel doors and frames including hardware sets and door accessories, anchors, fittings, welding, sashes, surface preparation priming and painting , weather striping where necessary and all necessary works as specified and shown on the Drawings | | | | |
| | Pump Building | | | | |
| | a- Type D1, 1600 x 2200mm high | No | 2 | | |
| | b- Type D2, 1000 x 2200mm high | No | 3 | | |
| | c- Type D3, 800 x 2200mm high | No | 1 | | |
| | d- Type D4, 1000 x 2200mm high, with weather striping. | No | 2 | | |
| | Control Building | | | | |
| | e- Type D1, 1800 x 2150mm high, including weather striping | No | 1 | | |
| | f- Type D2, 1000 x 2150mm high | No | 2 | | |
| | g- Type D3, 1000 x 2150mm high | No | 2 | | |
| | h- Type D4, 900 x 2150mm high | No | 2 | | |
| | I- Type D5, 900 x 2150mm high | No | 1 | | |
| 3.15 | Ditto but sliding steel door, including sliding mechanism, rails, weather striping, painting and all necessary fixings & fittings as specified and shown on the Drawings | | | | |
| | a- Type D5, 4000 x 4250mm high for Pump Building | No | 1 | | |
| TOTAL CARRIED TO NEXT PAGE | | | | | |

**NORTHERN GOVERNORATES WATER TRANSMISSION SYSTEM
EASTERN PRIMARY TRANSMISSION PROJECT
ZATARY PUMP STATION AND ZATARY-HOFA PIPELINE
BILL No 3**

B-ZATARY PUMP STATION

BUILDING WORKS

| Item No. | DESCRIPTION | UNIT | EST. QTY | RATE | AMOUNT |
|-----------------------------------|--|----------------|----------|------|--------|
| | | | | US\$ | US\$ |
| | Total Carried from the previous page | | | | |
| 3.16 | Supply and install black color anodized aluminum windows, fixed, hinged or sliding type, with aluminum fly screens and hardware and accessories, including all necessary frames, sub frames, trims, mastic sealant, 6mm single clear glazing, complete as shown on Drawings and as per specifications. | | | | |
| | For Pump Building | | | | |
| | a- Type W2, size 3600 x 1000mm high | No | 7 | | |
| | b- Type W3, size 2000 x 1200mm high | No | 4 | | |
| | c- Type W4, size 500 x 500mm high | No | 1 | | |
| | d- Type W5, size 900 x 1000 mm high | No | 9 | | |
| | For Control Building | | | | |
| | e- Type W1, size 1800 x 1250mm high | No | 6 | | |
| | f- Type W2, size 600 x 600mm high | No | 4 | | |
| 3.17 | Supply and install fixed aluminum louvers with removable / washable sand filters and collector trays as shown on the | | | | |
| | a- Type W1 size 1000x 3600mm high | No | 3 | | |
| 3.18 | Three coats cement and sand plastering for walls, ceilings, jambs and lintels including additives and accessories as specified and shown on the Drawings | | | | |
| | a- To walls & ceilings, Internally | M ² | 1710 | | |
| 3.19 | Supply and apply plaster materials in two coats plus one decorative colored cementitious final coat including all additives and treatment to corners, and final sealer coat as shown on the drawings | | | | |
| | b- To walls & parapets, Externally | M ² | 850 | | |
| 3.20 | Supply and install non-slip ceramic floor tiles including mortar beds, sand layer, grouting and cleaning as specified and shown on the Drawings | | | | |
| | a- Size 200x200x8mm to floors | M ² | 55 | | |
| 3.21 | Supply and install ceramic wall tiles, fixed with cement and sand mortar bed, including grouting and cleaning as specified and shown on the Drawings. Price includes two coats cement and sand plastering. | | | | |
| | a- Size 200x200x8mm to walls | M ² | 210 | | |
| 3.22 | Supply and install precast terrazzo tiles, including mortar bed, sand layer, cutting, fittings, accessories, grouting and polishing complete as specified. | | | | |
| | a- To floors, size 300x300x30mm thick | M ² | 110 | | |
| 3.23 | Supply and install first quality local marble skirting fixed to wall by cement sand mortar, complete as shown on drawings and as specified. | | | | |
| | a- Skirting, 250x100x12mm thick. | MR | 115 | | |
| TOTAL CARRIED TO NEXT PAGE | | | | | |

**NORTHERN GOVERNORATES WATER TRANSMISSION SYSTEM
EASTERN PRIMARY TRANSMISSION PROJECT
ZATARY PUMP STATION AND ZATARY-HOFA PIPELINE
BILL No 3**

B-ZATARY PUMP STATION

BUILDING WORKS

| Item No. | DESCRIPTION | UNIT | EST. QTY | RATE | AMOUNT |
|-------------------------------------|---|----------------|----------|------|--------|
| | | | | US\$ | US\$ |
| | Total Carried from the previous page | | | | |
| 3.24 | Supply and install first quality local marble sills, thresholds with chamfered edges, 30 mm thick, for doors, windows, and parapet as specified and shown on the Drawings | | | | |
| | a- 150mm wide, door thresholds | MR | 7 | | |
| | b- 350mm wide, door thresholds | MR | 2 | | |
| | c- 450mm wide, door thresholds | MR | 5 | | |
| | d- 450mm wide, window sills | MR | 105 | | |
| | e- 350mm wide, widow sills | MR | 3 | | |
| | f- 150 mm wide, widow sills | MR | 8 | | |
| | g- 200mm wide, parapet coping | MR | 43 | | |
| 3.25 | Supply and install emulsion paint "100% acrylic paint coating" in 3 coats including all necessary preparation works, filler and undercoats | | | | |
| | a- To plaster, internally | M ² | 1445 | | |
| 3.26 | Supply and install epoxy flooring system including preparing surface, protection works painting of skirting as specified | | | | |
| | a- To Pump Building floor | M ² | 325 | | |
| 3.27 | Supply & install complete Unit Kitchens as specified and shown on the drawings including counter tops and all plumbing and fixtures, accessories back splash and skirting | | | | |
| | a- 300 x 600 mm wall mounted cabinet | MR | 8 | | |
| | b- 600 x 900 mm cabinets | MR | 8 | | |
| 3.28 | Supply & install complete office furniture as specified and detailed in Section 12620 "Furniture Schedule" | LS | LS | | |
| 3.29 | Supply and install polished travertine local stone cut to size and shapes shown on the drawings including fixation to external walls, mortars, pointing and cleaning | | | | |
| | a- 250x600x50mm | No | 25 | | |
| | b- 250x300x50mm | No | 25 | | |
| | c- Frame for door #5 for pump building | No | 1 | | |
| | d- Frame for window #1 for control building | No | 6 | | |
| | e- Parapet coping for pump building | MR | 135 | | |
| | f- Decorative stone piece 400x250x100mm | No | 6 | | |
| TOTAL CARRIED TO BID SUMMARY | | | | | |

**NORTHERN GOVERNORATES WATER TRANSMISSION SYSTEM
EASTERN PRIMARY TRANSMISSION PROJECT
ZATARY PUMP STATION AND ZATARY-HOFA PIPELINE
BILL No 4**

B-ZATARY PUMP STATION

MECHANICAL WORKS

| Item No. | DESCRIPTION | UNIT | EST. QTY | RATE | AMOUNT |
|-----------------------------------|---|------|----------|------|--------|
| | | | | US\$ | US\$ |
| 4.01 | Supply & install Vertical Turbine Pumps including motors as specified and shown on the drawings | No | 4 | | |
| 4.02 | Supply & install steel can to suit the Vertical Turbine Pumps as specified and shown on the Drawings | No | 6 | | |
| 4.03 | Supply & install steel can cover for future cans | No | 2 | | |
| 4.04 | Supply, install, test and commission surge arrestor system including compressors, air receivers, control panel as specified and shown on the drawings | No | 2 | | |
| 4.05 | Supply, install test and commission double girder overhead crane, 10ton capacity, including but not limited to 34.4 m long beam crane track, electric bus bar cabling limited switches, safety devices, pendant control switch and cabling to main electric supply as specified and shown on the Drawings | LS | LS | | |
| 4.06 | Pump Suction Line: Supply, install test and commission 600 mm pump suction pipe including excavation and RC encasement as specified and shown on the Drawings | No | 6 | | |
| 4.07 | Pump Discharge Line: Supply, install test and commission 400 mm pump discharge pipe including reducer, air valve, pressure gauge, restrained flexible joints, check valve, gate valve, pipe support and pipe penetration through PS building wall as specified and shown on the Drawings | No | 4 | | |
| 4.08 | Future Pump Discharge Line: Supply, install test and commission 400 mm pump discharge pipe for future pumps including, gate valve, blind flange and pipe penetration through PS building wall as specified and shown on the Drawings | No | 2 | | |
| 4.09 | Supply, install, test and commission UPVC for rain water pipes, including roof drain, fittings, elbows, outlets and vent caps as specified and shown on the Drawings | | | | |
| | a- Y 110mm, 4.7mm thick | MR | 25 | | |
| | b- Y 50 mm, 2.8 mm thick | MR | 5 | | |
| 4.10 | Supply, install, test and commission UPVC pipes for sanitary sewers, including fittings, vent caps and concreting as specified and shown on the drawings | | | | |
| | a- 110mm diameter, 4.7mm pipe thickness | MR | 30 | | |
| | b- 75mm diameter, 3.2mm pipe thickness | MR | 15 | | |
| | c- 50mm diameter, 2.8mm pipe thickness | MR | 25 | | |
| TOTAL CARRIED TO NEXT PAGE | | | | | |

**NORTHERN GOVERNORATES WATER TRANSMISSION SYSTEM
EASTERN PRIMARY TRANSMISSION PROJECT
ZATARY PUMP STATION AND ZATARY-HOFA PIPELINE
BILL No 4**

B-ZATARY PUMP STATION

MECHANICAL WORKS

| Item No. | DESCRIPTION | UNIT | EST. QTY | RATE | AMOUNT |
|-------------------------------------|---|------|----------|------|--------|
| | | | | US\$ | US\$ |
| | Total Carried from the previous page | | | | |
| 4.11 | Supply, install test and commission Y 110 UPVC floor drain and cleanout with cover | No | 8 | | |
| 4.12 | Supply, install, test, disinfect and commission water galvanized steel pipes, medium class B, including fittings & connections, valves, supporting and all related civil works | | | | |
| | a- Y50mm | MR | 25 | | |
| | b- Y32mm | MR | 60 | | |
| | c- Y25mm | MR | 10 | | |
| 4.13 | Supply, install, test, disinfect and commission water distribution box (WDB01) & all polyethylene pipes & sleeves to all fixtures as shown on drawing (M-3) | No | 2 | | |
| 4.14 | Supply & install pedestal type wash basin 600x430mm, including soap try, shelves, towel bar | No | 3 | | |
| 4.15 | Supply & install European WC with 9 litter flush cistern seat & cover & WC connector, and angle valve with cover | No | 2 | | |
| 4.16 | Supply & install shower tray including shower head, drain outlet, shower handle | | | | |
| | a- 760x760x150mm | No | 2 | | |
| 4.17 | Supply & install stainless steel kitchen sink, including drain trap, hot H&C mixer with swivel nose, and angle valve | | | | |
| | a- 1200x600mm | No | 2 | | |
| 4.18 | Supply & install glass line electric water heater, 50 litter capacity, vertical type including thermostat with indication lamp & safety cut out, check & safety valves, flexible pipes. | No | 2 | | |
| 4.19 | Supply & install galvanized steel water tanks 2m3 capacity, including steel base, float, valves, pipe connections, all necessary piping for inlet outlet drain & over flow | No | 2 | | |
| 4.20 | Supply & install decorative type cooling & heating split Air conditioning unit, as specified and shown on the Drawings | | | | |
| | a- SP-1 | No | 3 | | |
| | b- SP-2 | No | 3 | | |
| | c- SP-3 | No | 2 | | |
| 4.21 | Supply & install wall mounted exhaust fan | | | | |
| | a- EXF-1, 210m3/hr | No | 4 | | |
| | b- EXF-2, 3630m3/hr | No | 7 | | |
| 4.22 | Supply test and operate complete as specified | | | | |
| | a- Safety Devices/Equipment | LS | LS | | |
| | b- Maintenance and Miscellaneous Equipment | LS | LS | | |
| TOTAL CARRIED TO BID SUMMARY | | | | | |

**NORTHERN GOVERNORATES WATER TRANSMISSION SYSTEM
EASTERN PRIMARY TRANSMISSION PROJECT
ZATARY PUMP STATION AND ZATARY-HOFA PIPELINE
BILL No 5**

B-ZATARY PUMP STATION

ELECTRICAL WORKS

| Item No. | DESCRIPTION | UNIT | EST. QTY | RATE | AMOUNT |
|-----------------------------------|---|------|----------|------|--------|
| | | | | US\$ | US\$ |
| 5.01 | Supply, install, test and operate Motor Control Centers as specified and shown on the Drawings a- 6.6 KV MCC | LS | LS | | |
| 5.02 | Supply, install, test and operate Sub main distribution panel as specified and shown on the Drawings a- 0.4 KV SMDB | No | 1 | | |
| 5.03 | Supply, install, test and operate 3 phase branch distribution boards as specified and shown on the Drawings a- DBA (42 way) | No | 1 | | |
| | b- DBB (24 way) | No | 1 | | |
| 5.04 | Supply, install, test and operate the following Panels as specified and shown on the Drawings a- 0.4 KV DBC | No | 1 | | |
| | b- SPEL | No | 1 | | |
| 5.05 | Supply, install, test and operate Isolator switches as specified and shown on the Drawings a- For feeding point for crane, 3phase,40A | No | 1 | | |
| | b- For A/C feeding point ,3phase ,30A | No | 2 | | |
| | c- For Air compressors feeding point,3phase ,30A | No | 2 | | |
| | d- For A/C feeding point ,1phase ,30A | No | 6 | | |
| | e- For feeding point for exhaust fan,1phase,15A | No | 8 | | |
| 5.06 | Supply, install, test and operate Lightning system as specified and shown on the Drawings a- lightning system for pump house building | LS | LS | | |
| | b- lightning system for control building | LS | LS | | |
| 5.07 | Supply, install, test and operate Grounding system as specified and shown on the Drawings a- Grounding system for 6.6KV MCC. | LS | LS | | |
| | b- Grounding system for 04.KV SMDB. | LS | LS | | |
| | c- Grounding system for telecommunication & control systems. | LS | LS | | |
| 5.08 | Supply, install, test and operate 6.6 KV cable as specified and shown on the Drawings a- 4(3x240 mm2) CU/XLPE/SWA/PVC CABLE (main cable) | MR | 240 | | |
| | b- 3x50 mm2 CU/XLPE/SWA/PVC CABLE + 1x35mm2 (pump feeding cable) | MR | 225 | | |
| | C- 3x35 mm2 CU/XLPE/SWA/PVC CABLE (feeding cable from MCC to power transformer) | MR | 25 | | |
| 5.09 | Supply, install, test and operate Main feeding 0.6 KV cable as specified and shown on the Drawings a- 4x240 mm2 CU/XLPE/SWA/PVC CABLE | MR | 40 | | |
| TOTAL CARRIED TO NEXT PAGE | | | | | |

**NORTHERN GOVERNORATES WATER TRANSMISSION SYSTEM
EASTERN PRIMARY TRANSMISSION PROJECT
ZATARY PUMP STATION AND ZATARY-HOFA PIPELINE
BILL No 5**

B-ZATARY PUMP STATION

ELECTRICAL WORKS

| Item No. | DESCRIPTION | UNIT | EST. QTY | RATE | AMOUNT |
|----------------------------|---|------|----------|------|--------|
| | | | | US\$ | US\$ |
| | Total Carried from the previous page | | | | |
| 5.10 | Supply, install, test and operate Power branch panel feeding cables as specified and shown on the Drawings | | | | |
| | a- 4x35 mm2 CU/PVC/PVC + 1x16mm2 CABLES | MR | 30 | | |
| | b- 4x35 mm2 CU/PVC/PVC + 1x25mm2 CABLES | MR | 30 | | |
| | c- 4x10 mm2 CU/PVC/PVC + 1x10mm2 CABLES | MR | 170 | | |
| | d- 4x6 mm2 CU/PVC/PVC + 1x6mm2 CABLES | MR | 100 | | |
| | e- 3x6 mm2 CU/PVC/PVC CABLE | MR | 150 | | |
| | f- 3x4 mm2 CU/PVC/PVC CABLE | MR | 170 | | |
| | g- 3x2.5 mm2 CU/PVC/PVC CABLE | MR | 200 | | |
| 5.11 | Supply, install, test and operate street lighting cables as specified and shown on the Drawings | | | | |
| | a- 3x4 mm2 CU/PVC/SWA/PVC CABLE | MR | 400 | | |
| 5.12 | Supply, install, test and operate Internal lighting unit as specified and shown on the Drawings | | | | |
| | a- L1 | No | 8 | | |
| | b- L2 | No | 18 | | |
| | c- L3 | No | 22 | | |
| | d- L4 | No | 9 | | |
| | e- L5 | No | 8 | | |
| | f- L6 | No | 3 | | |
| 5.13 | Supply, install, test and operate street lighting poles & units as specified and shown on the Drawings | | | | |
| | a- L7 | No | 7 | | |
| | b- L8 | No | 5 | | |
| 5.14 | Supply, install, test and operate internal lighting points as specified and shown on the Drawings | No | 68 | | |
| 5.15 | Supply, install, test and operate exit signs & emergency lighting unit as specified and shown on the Drawings, price shall include feedings point | | | | |
| | a- wall mounted maintained emergency lighting unit with exit sign (1x8watt). | No | 6 | | |
| | b- emergency non-maintained luminaries,(2x8 watt). | No | 7 | | |
| TOTAL CARRIED TO NEXT PAGE | | | | | |

**NORTHERN GOVERNORATES WATER TRANSMISSION SYSTEM
EASTERN PRIMARY TRANSMISSION PROJECT
ZATARY PUMP STATION AND ZATARY-HOFA PIPELINE
BILL No 5**

B-ZATARY PUMP STATION

ELECTRICAL WORKS

| Item No. | DESCRIPTION | UNIT | EST. QTY | RATE | AMOUNT |
|------------------------------|--|------|----------|------|--------|
| | | | | US\$ | US\$ |
| | Total Carried from the previous page | | | | |
| 5.16 | Supply, install, test and operate power points as specified and shown on the Drawings | | | | |
| | a- 13A,earthed ,shuttered ,switched one gang socket outlet | No | 23 | | |
| | b- ditto but duplex | No | 10 | | |
| | c- 16A, three phase industrial outlet , three pole +N+E | No | 4 | | |
| | d- ditto but 32A | No | 4 | | |
| | e- power point for window type exhaust fan | No | 3 | | |
| | f- power point for electrical water heater | No | 2 | | |
| 5.17 | Supply, install, test and operate telephone outlets as specified and shown on the Drawings | | | | |
| | a- wall mounted RJ11 telephone outlet | No | 2 | | |
| | b- wall mounted RJ11&RJ45 telephone & network outlets | No | 10 | | |
| | c-Data Patch panel 12port. | No | 1 | | |
| 5.18 | Supply, install, test and operate telephone connection box as specified and shown on the Drawings | | | | |
| | a- 20P telephone cabinet (TC) | No | 1 | | |
| 5.19 | Supply, install, test and operate telephone cable as specified and shown on the Drawings | | | | |
| | a- 20P telephone cable | MR | 25 | | |
| 5.20 | Supply, install, test and operate Fire Alarm components as specified and shown on the Drawings | | | | |
| | a- conventional Fire Alarm control panel (4 zones) | No | 1 | | |
| | b- conventional heat detector | No | 1 | | |
| | c- conventional smoke detector | No | 3 | | |
| | d- Manual Fire Alarm station (break glass) | No | 1 | | |
| | e- Fire Alarm Horn | No | 1 | | |
| 5.21 | Supply, install, test and operate Fire Alarm points as specified and shown on the Drawings | No | 6 | | |
| 5.22 | | | | | |
| | Supply, install, test and operate instrumentation handhole (60L,60W,60D cm) as specified and shown on the Drawings | No | 6 | | |
| 5.23 | | | | | |
| | Supply, install, test and operate power handhole (100L,100W,100D cm) as specified and shown on the Drawings | No | 2 | | |
| TOTAL CARRIED TO BID SUMMARY | | | | | |

**NORTHERN GOVERNORATES WATER TRANSMISSION SYSTEM
EASTERN PRIMARY TRANSMISSION PROJECT
ZATARY PUMP STATION AND ZATARY-HOFA PIPELINE
BILL No 6**

B-ZATARY PUMP STATION

INSTRUMENTATION AND CONTROL WORKS

| Item No. | DESCRIPTION | UNIT | EST. QTY | RATE | AMOUNT |
|--|---|------|----------|------|--------|
| | | | | US\$ | US\$ |
| 6.01 | Supply, install, test and operate as specified and shown on the Drawings Instrumentation system in Zatory pump station . | LS | LS | | |
| 6.02 | Supply, install, test and operate as specified and shown on the Drawings Instrumentation system in Um El-lulu Reservoir . | LS | LS | | |
| 6.03 | Supply, install, test and operate as specified and shown on the Drawings Instrumentation system in Hofa Reservoir . | LS | LS | | |
| 6.04 | Supply, install, test and operate as specified and shown on the Drawings RTU/PLC Station in Zatory pump station . | LS | LS | | |
| 6.05 | Supply, install, test and operate as specified and shown on the Drawings RTU/PLC Station in Um EL-lulu Reservoir . | LS | LS | | |
| 6.06 | Supply, install, test and operate as specified and shown on the Drawings RTU/PLC Station in HOFA Reservoir . | LS | LS | | |
| 6.07 | Supply, install, test and operate as specified and shown on the Drawings SCADA System in the control centre / Zatory pump station. | LS | LS | | |
| TOTAL CARRIED TO TENDER SUMMARY | | | | | |

**NORTHERN GOVERNORATES WATER TRANSMISSION SYSTEM
EASTERN PRIMARY TRANSMISSION PROJECT
ZATARY PUMP STATION AND ZATARY-HOFA PIPELINE
BILL No 7**

C-ZATARY-HOFA PIPELINE

PIPELINE

| Item No. | DESCRIPTION | UNIT | EST. QTY | RATE | AMOUNT |
|-----------------------------------|---|----------------|----------|------|--------|
| | | | | US\$ | US\$ |
| 7.01 | Transmission Pipeline: Supply, install, test, disinfect and commission DIP and fittings for the as specified and shown on | | | | |
| | PN 16 | | | | |
| | 1000mm Diameter | | | | |
| | a- In natural ground/dirt roads | MR | 280 | | |
| | 900mm Diameter | | | | |
| | b- In natural ground/dirt roads | MR | 6950 | | |
| | c- In asphalt roads | MR | 10 | | |
| | 700mm Diameter | | | | |
| | d- In natural ground/dirt roads | MR | 8750 | | |
| | e- In asphalt roads | MR | 960 | | |
| | 600mm Diameter | | | | |
| | f- In natural ground/dirt roads | MR | 10 | | |
| | PN 25 | | | | |
| | 1000mm Diameter | | | | |
| | g- In natural ground/dirt roads | MR | 13800 | | |
| | h- In asphalt roads | MR | 855 | | |
| | 700mm Diameter | | | | |
| | i- In natural ground/dirt roads | MR | 16200 | | |
| | j- In asphalt roads | MR | 120 | | |
| | <u>MISCELLANEOUS CONCRETE</u> | | | | |
| 7.02 | Reinforced concrete encasement for DIP at any depth as specified and shown on the Drawings | | | | |
| | a- For 1000mm Diameter pipes | MR | 95 | | |
| | b- For 900mm Diameter pipes | MR | 25 | | |
| | c- For 700mm Diameter pipes | MR | 490 | | |
| 7.03 | Grade 30 concrete for trust blocks | M ³ | 120 | | |
| 7.04 | Reinforced concrete Grade 30 for trust blocks on reducers | M ³ | 2 | | |
| TOTAL CARRIED TO NEXT PAGE | | | | | |

**NORTHERN GOVERNORATES WATER TRANSMISSION SYSTEM
EASTERN PRIMARY TRANSMISSION PROJECT
ZATARY PUMP STATION AND ZATARY-HOFA PIPELINE
BILL No 7**

B-ZATARY-HOFA PIPELINE

PIPELINE

| Item No. | DESCRIPTION | UNIT | EST. QTY | RATE | AMOUNT |
|--|---|------|----------|------|--------|
| | | | | US\$ | US\$ |
| | Total Carried from the previous page | | | | |
| 7.06 | Supply, install, test and commission steel pipes and fittings for washout discharge pipes | | | | |
| | PN 16 | | | | |
| | 400mm Diameter | | | | |
| | a- In natural ground/dirt roads | MR | 180 | | |
| | 300mm Diameter | | | | |
| | b- In natural ground/dirt roads | MR | 210 | | |
| | PN 25 | | | | |
| | 400mm Diameter | | | | |
| | a- In natural ground/dirt roads | MR | 210 | | |
| | 300mm Diameter | | | | |
| | b- In natural ground/dirt roads | MR | 450 | | |
| TOTAL CARRIED TO TENDER SUMMARY | | | | | |

**NORTHERN GOVERNORATES WATER TRANSMISSION SYSTEM
EASTERN PRIMARY TRANSMISSION PROJECT
ZATARY PUMP STATION AND ZATARY-HOFA PIPELINE
BILL No 8**

C-ZATARY-HOFA PIPELINE

VALVES

| Item No. | DESCRIPTION | UNIT | EST. QTY | RATE | AMOUNT |
|-----------------------------------|--|------|----------|------|--------|
| | | | | US\$ | US\$ |
| 8.01 | Supply, install, test, disinfect and commission butterfly valves in vaults as specified and shown on the Drawings | | | | |
| | PN 16 | | | | |
| | a- For 900mm DIP | No | 1 | | |
| | b- For 700mm DIP | No | 1 | | |
| | c- For 600mm DIP | No | 2 | | |
| | PN25 | | | | |
| | d- For 700mm DIP | No | 2 | | |
| 8.02 | Supply, install, test, disinfect and commission gate valves in vaults as specified and shown on the Drawings | | | | |
| | PN25 | | | | |
| | 400mm Diameter | No | 1 | | |
| | 150mm Diameter | No | 1 | | |
| | 100mm Diameter | No | 1 | | |
| 8.03 | Supply, install, test, disinfect and commission combination valves (air release and vacuum release in separate bodies) in vaults as specified and shown on the Drawings | | | | |
| | PN 16 | | | | |
| | a- 100mm combination valves for 900mm DIP | No | 6 | | |
| | b- 100mm combination valves for 700mm DIP | No | 8 | | |
| | PN25 | | | | |
| | c- 100mm combination valves for 1000mm DIP | No | 9 | | |
| | d- 100mm combination valves for 700mm DIP | No | 15 | | |
| 8.04 | Supply, install, test, disinfect and commission washouts in vaults as specified and shown on the Drawings | | | | |
| | PN 16 | | | | |
| | a- 300mm washout for 900mm DIP | No | 6 | | |
| | b- 300mm washout for 700mm DIP | No | 7 | | |
| | PN25 | | | | |
| | c- 400mm washout for 1000mm DIP | No | 7 | | |
| | d- 300mm washout for 700mm DIP | No | 15 | | |
| 8.05 | Refurbish existing air valve vaults and supply and install combination (air release and vacuum release in separate bodies) valves as specified and shown on the drawings | | | | |
| | PN 16 | | | | |
| | a 100mm combination valves for Existing 600mm DIP | No | 7 | | |
| TOTAL CARRIED TO NEXT PAGE | | | | | |

**NORTHERN GOVERNORATES WATER TRANSMISSION SYSTEM
EASTERN PRIMARY TRANSMISSION PROJECT
ZATARY PUMP STATION AND ZATARY-HOFA PIPELINE
BILL No 8**

C-ZATARY-HOFA PIPELINE

SPARE PARTS

| Item No. | DESCRIPTION | UNIT | EST. QTY | RATE | AMOUNT |
|------------------------------|--|------|----------|------|--------|
| | | | | US\$ | US\$ |
| | Total Carried from the previous page | | | | |
| 8.06 | Supply and deliver to the Employer specified warehouse the following spare items | | | | |
| | a- 1000mm DIP | MR | 24 | | |
| | b- 900mm DIP | MR | 18 | | |
| | c- 700mm DIP | MR | 36 | | |
| | d-1000mm PN25 butterfly valve | No | 1 | | |
| | e-900mm PN16 butterfly valve | No | 1 | | |
| | f-700mm PN25 butterfly valve | No | 1 | | |
| | g- 1000mm PN25 Dismantling joint | No | 4 | | |
| | h- 900mm PN16 Dismantling joint | No | 3 | | |
| | i- 700mm PN25 Dismantling joint | No | 6 | | |
| | j- 400mm PN25 Gate Valve | No | 1 | | |
| | k- 300mm PN25 Gate Valve | No | 2 | | |
| | l- 300mm PN16 Gate Valve | No | 2 | | |
| TOTAL CARRIED TO BID SUMMARY | | | | | |

**NORTHERN GOVERNORATES WATER TRANSMISSION SYSTEM
EASTERN PRIMARY TRANSMISSION PROJECT
ZATARY PUMP STATION AND ZATARY-HOFA PIPELINE
BILL No 9**

D-PROVISIONAL SUMS

| Item No. | DESCRIPTION | UNIT | EST. QTY | RATE | AMOUNT |
|---------------------------------|---|------|-------------|------------|------------|
| | | | | US\$ | US\$ |
| 9.01 | Provisional Sums | | | | |
| | Provision for variation orders for unforeseen works | | | 400,000.00 | 400,000.00 |
| TOTAL CARRIED TO TENDER SUMMARY | | | | | 400,000.00 |